Samsung LEC Series LED LFDs

Flexible, sturdy, cost-effective displays for near-continuous visual communication

Highlights

- Add impact to company messages with high image quality and consistency
- Create a range of content using the optional Samsung Plug-in Module (PIM)
- Protect valuable displays with optional protection glass
- Decrease total cost of ownership (TCO) with reduced-operational costs and higher resilience
- Increase efficiency through straightforward installation and connectivity options

Display dynamic messages

LED technology has become increasingly more affordable, prompting many businesses to install large format displays (LFDs) in retail and office locations to convey important

messages. Yet businesses need to balance costs against device quality, availability and reliability.

Companies require LED LFDs that can display high-quality content consistently over time, with simplified management and swift content delivery. Managers also want to keep installation and maintenance costs within operating budgets, and to reduce power consumption and environmental impacts.

The Samsung LEC Series of LED LFDs is designed to operate 24x7 to display many content types from a range of-sources. LEC Series displays offer superior content display and management tools for efficient design and delivery of important messages. With the ability to connect to external devices to access a range of content, LEC Series displays are cost-effective, energy-efficient and highly durable devices.

Communicate company messages with clear, bright images

Images and text must be readable for messages to be understood. LEC Series displays feature 11 percent haze and up to 700-nit brightness for delivery of clear(*46",55" :700-nit / 32":350-nit), impactful text. LEC Series achieves energy efficiency with innovative cooling technologies designed to improve heat dissipation while lowering internal operating temperatures.

Samsung's industry-leading imaging technology produces images that are more vibrant and realistic than those produced by cold cathode fluorescent lamp (CCFL) LFDs. Even in brightly lit conditions, LEC Series displays project lifelike images within a glare-proof surface for improved viewing at different angles.

Save money with reduced energy consumption and high durability

Increase content possibilities with external content drives and the optional Samsung PIM

LEC Series displays are designed to use content from various external sources, including PCs, external hard drives and USB drives, with an optional PIM. Samsung PIMs use Intel® Open Pluggable Specification (OPS) connectivity to enable power and video source delivery through a single cable. No additional power cord is necessary.

With the optional PIM installed, external clutter is reduced so that the slim design of LEC Series displays is retained. Clients can choose from among the following PIM models:

- Dual core PIM with 2 GB of RAM and Microsoft® Windows® Embedded Standard 7 (WES7) installed
- Quad core PIM with 4 GB of RAM and WES7 installed
- Quad core PIM with 4 GB of RAM, a 128 GB solid state drive (SSD) and Windows 7 Professional installed

Safeguard displays with optional protection glass

Hazardous objects and dust can threaten the durability of LED LFDs, especially in high-traffic or industrial areas. The mechanical structure of LEC Series displays enables the installation of protection glass. Third-party service providers can supply a protective cover that meets individual business requirements.

Figure 1. Protection Glass

Reduce TCO through lower operational costs and greater durability

High availability is a key component of any hardware investment. LEC Series displays are designed to consume less power and emit less heat than other displays of their class. An included holiday power-off timer helps to further reduce display power requirements so that businesses can lower energy costs.

The innovative LED BLU (backlit unit) technology found in LEC Series displays uses less energy than conventional CCFL LFDs. Because LEC Series displays are designed to last longer at reduced power consumption rates, businesses can spend far less to promote key messages. Customers or employees can view important information at the time and place of highest potential impact to help increase return on investment (ROI).

Figure 2. Samsung LED backlight technology uses less power for optimal energy efficiency.

Control resource costs with simplified installation and connection features

To reduce the time, effort and space necessary to connect with other devices in business environments, LEC Series displays feature straightforward installation. A slim, lightweight design makes better use of available space while providing simplified connectivity.

The optional PIM , which needs no power cable, is equipped to connect seamlessly to a PC to display additional content without bulky boxes. This slender design makes surrounding space available for other purposes.

Businesses can optimize available display space with the following LEC Series display features:

- Remote content delivery, up to 15 m (42.9 ft) through the DisplayPort® interface
- Small connectors
- RJ45 ports for remote control

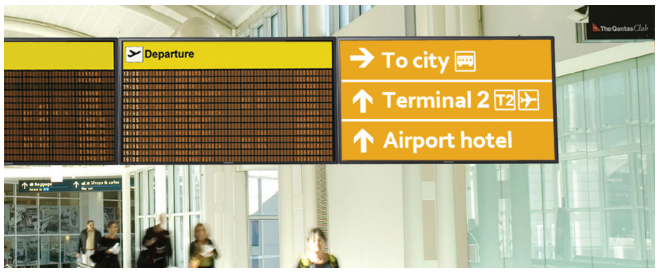
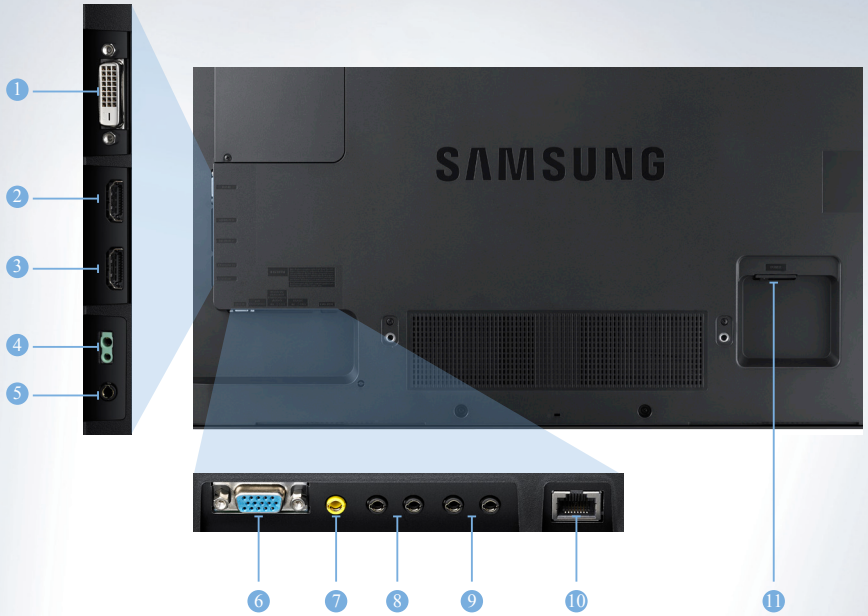


Figure 3. Clear, bright Samsung LEC Series LED displays are designed for 24x7 operation.

LEC

32" / 46"/ 55"

Connectors



1. DVI IN
2. HDMI IN 1
3. HDMI IN 2
4. CONTROL IN
5. IR OUT
6. RGB IN
7. AV / COMPONENT
8. RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN
9. RS232C
10. RJ45 MDC
11. POWER

Specifications

			LE32C	LE46C	LE55C
Panel	Diagonal size		32 in.	46 in.	55 in.
	Type		60 Hz LED BLU	60 Hz LED BLU	120 Hz LED BLU
	Resolution		1,920 x 1,080 (16:9)		
	Pixel pitch (H x V)		0.121 mm (H) x 0.364 mm (V) (0.00 in. x 0.01 in.)	0.177 mm (H) x 0.530 mm (V) (0.01 in. x 0.02 in.)	0.210 mm (H) x 0.630 mm (V) (0.01 in. x 0.02 in.)
	Active display area (H x V)		698.4 mm (H) x 392.85 mm (V) (27.50 in. x 15.47 in.)	1,018.08 mm (H) x 572.67 mm (V) (40.08 in. x 22.55 in.)	1,209.6 mm (H) x 680.4 mm (V) (47.62 in. x 26.79 in.)
	Brightness (typ)		350 nits	700 nits	700 nits
	Contrast ratio		3,000:1	4,000:1	4,000:1
	Viewing angle (H/V)		178:178		
	Response time (G-to-G)		8 ms		
	Display colors		16.7 M		
	Color gamut		72%		
Display	Dynamic C/R		10000:1		
	H-Scanning Frequency		30 ~ 81 kHz		
	V-Scanning Frequency		56 ~ 85 Hz		
	Maximum Pixel Frequency		148.5 MHz		
Connectivity	Input	RGB	Analog D-sub		
		Video	DVI, HDMI 1, HDMI 2, CVBS Component (D-sub 15 pin)		
		Audio	Stereo mini jack		
	Output	Audio	Stereo mini jack		
	External Control		RS-232C (in/out) through stereo jack		
Power	Type		Internal		
	Power supply		AC 100 - 240 V - (+/- 10%), 50/60 Hz		
	Power consuption	Max (W/h)	145	200	220
		Typical (W/h)	57	99	123
		BTU (max)	494.45	682	750.2
		Sleep mode	< 0.5 W		
		Off mode	< 0.5 W		

Specifications

			LE32C	LE46C	LE55C
Mechanical specs	Dimension	Set	744.0 mm x 452.7 mm x 65.9 mm (29.29 in. x 17.82 in. x 2.59 in.)	1,061 mm x 619.8 mm x 51.7 mm (41.77 in. x 24.40 in. x 2.03 in.)	1,252.4 mm x 727.7 mm x 51.7 mm (49.31 in. x 28.65 in. x 2.03 in.)
		Package	833 x 531 x 144	1187 x 726 x 152	1367 x 820 x 165
	Weight	Set	9.1	17.4	23.6
		Package	10.2	20.6	28.2
	VESA mount		200 mm x 200 mm (7.87 in. x 7.87 in.)	400 mm x 400 mm (15.75 in. x 15.75 in.)	400 mm x 400 mm (15.75 in. x 15.75 in.)
	Stand type		Foot stand (optional)		
	Media player option type		PIM		
	Bezel width		21.4(L/R), 28.5(T/B)	20.5mm(Bottom 24.7mm)	20.5mm(Bottom 24.7mm)
Operation	Operating temperature		0°C - 40°C (32°F - 104°F)		
	Humidity		10 - 80%		
Feature	Key		Professional LED LFD for 24/7 business		
	Special		Built-in speaker (10 W + 10 W), PIP/PBP, narrow bezel, light weight, RS-232C in/out		
Accessories	Included		Quick setup guide, warranty card, application CD, D-sub cable, power cord, remote controller, batteries		
	Optional	Stand	STN-L32D	STN-L4055AD	STN-L4055AD
		Mount	WMN4070SD	WMN4270SD	WMN4270SD
		Specialty	CML 400D (ceiling mount)	CML 450D (ceiling mount)	CML 450D (ceiling mount)
Media player	CPU		PIM		
	N/B				
	S/B				
	GPU				
	FDM/HDD				
	Memory				
	Ethernet				
	Connectivity	USB			
		Output			
		Others			

Specifications

		LE32C	LE46C	LE55C
Certification	Safety	CB(Europe) : IEC60950-1/EN60950-1 UL(USA)/CSA (Canada) : UL60950-1,CSA C22.2 No. 1 CCC(China) : GB 8898-2001 PSB(Singapore) : PSB+IEC60950-1 NOM(Mexico) : NOM-019-SCFI-1998 KC (Korea) : K60950-1 IRAM (Argentina) : IRAM+IEC60950-1 GOST (Russia) : GOST+IEC60950-1 SASO (SaudiArabia) :SASO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 TUV(Germany) : EN60950-1 NEMKO (Norway) : EN60950-1		
	EMC	FCC (USA) : Part 15, Subpart B Class A KCC/EK (Korea) : KN22 / 24 CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 EN61000-3-2:2006+A1:2009+A2:2009 EN61000-3-3:2008 VCCI (Japan) : VCCI V-3 /2010.04 Class A CCC(China) : GB9254-2008(CISPR22) Class A GB17625.1-2003 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009		
	Environment	ENERGY STAR 6.0 (USA)		

Legal and additional information

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For more information

For more information about Samsung LEC Series LED LFDs, visit www.samsung.com/business.

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